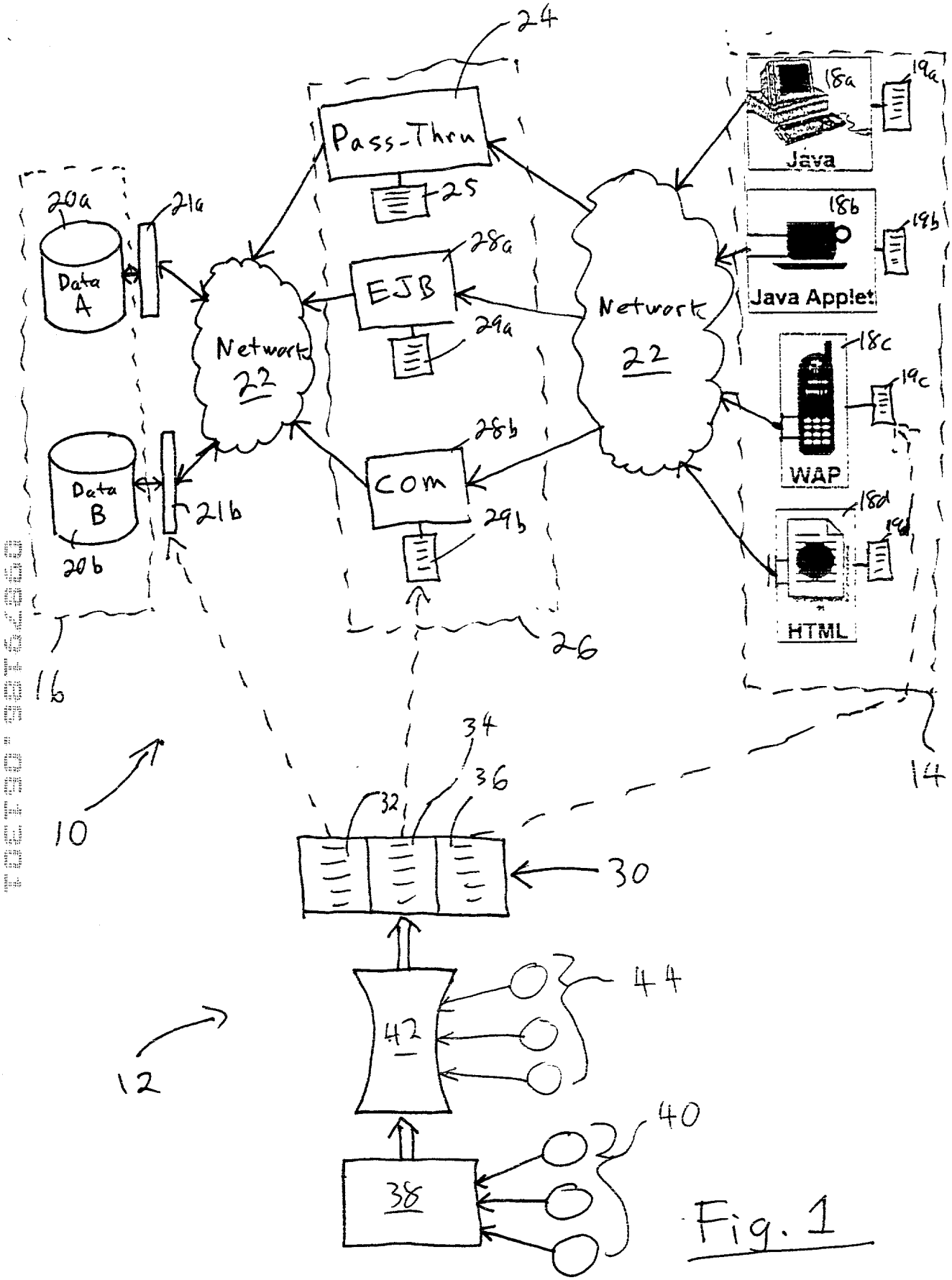

24
Pass-Thru
25
EJB
28a
29a
com
28b
29b
Network
22
Network
22
Data
A
20a
21a
Data
B
20b
21b
16
26
18a
19a
Java
18b
19b
Java Applet
18c
19c
WAP
18d
19d
HTML
14
10
34
36
32
30
44
42
12
40
38

Fig. 1

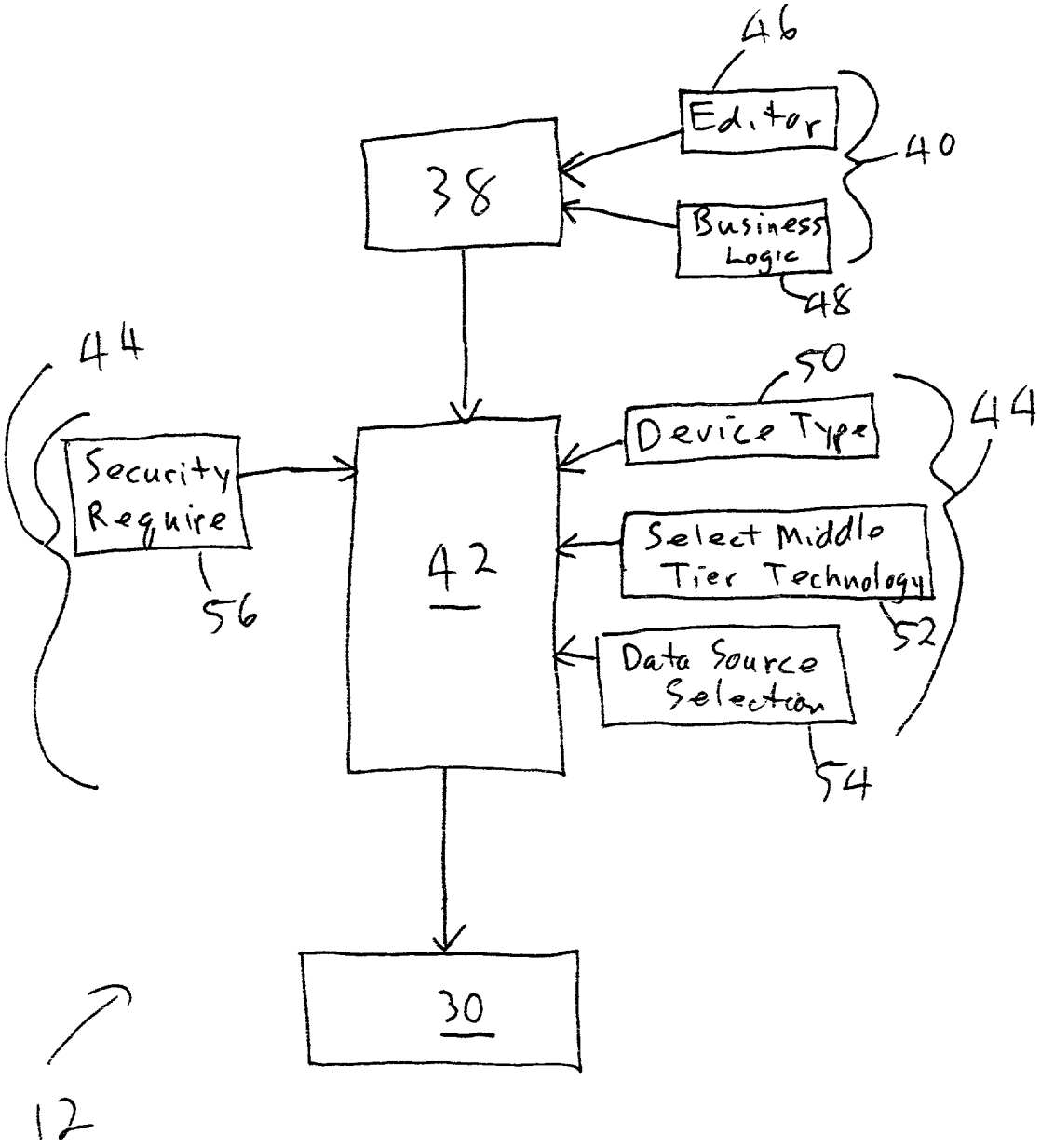

46
Editor
40
38
Business Logic
48
44
50
Device Type
44
Security Require
42
Select Middle Tier Technology
52
56
Data Source Selection
54
30
12

Fig. 2

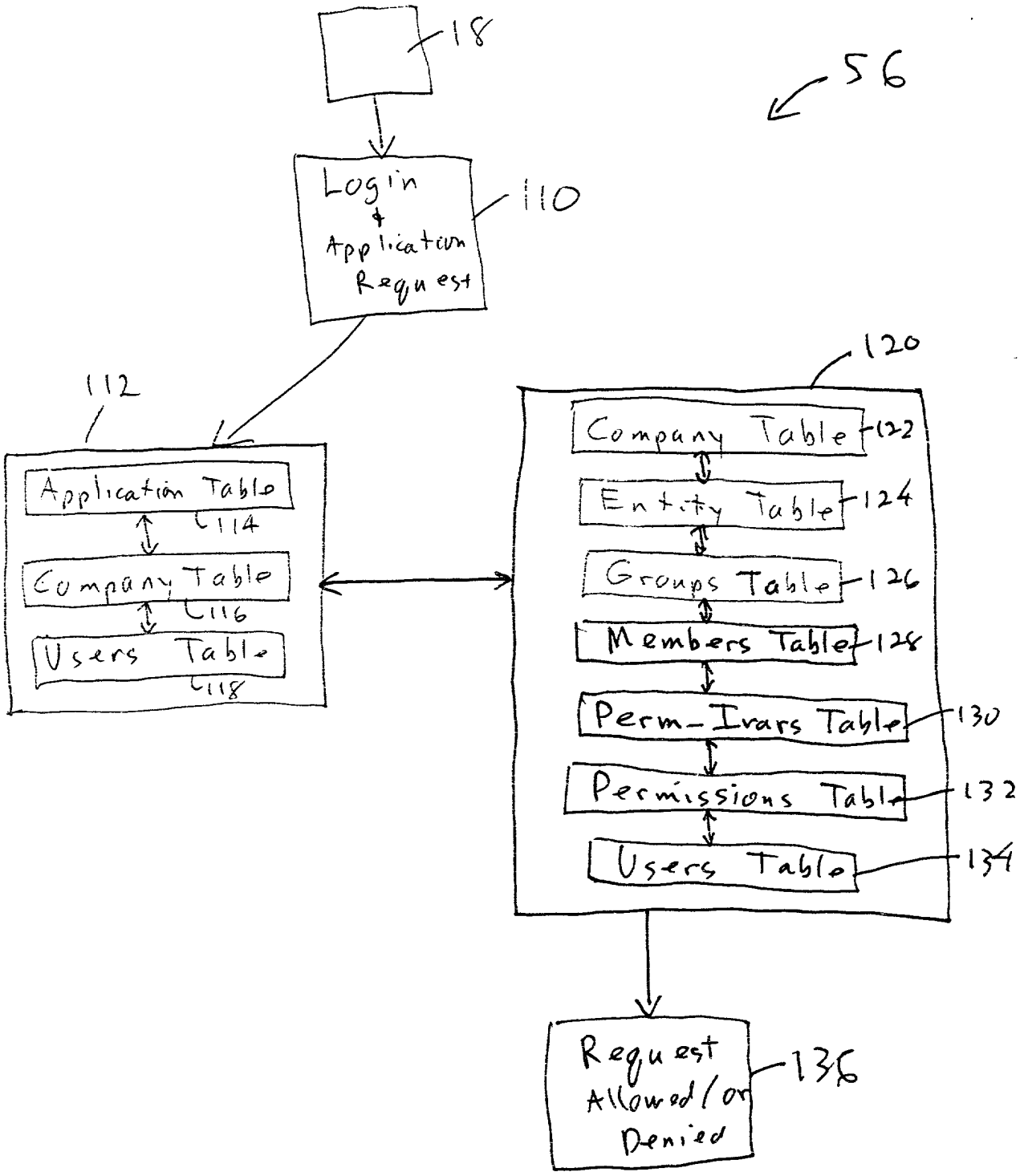

18
56
Login
+
Application
Request
110
112
120
Application Table
114
Company Table
116
Users Table
118
Company Table
122
Entity Table
124
Groups Table
126
Members Table
128
Perm_Irars Table
130
Permissions Table
132
Users Table
134
Request
Allowed/or
Denied
136

Fig. 3

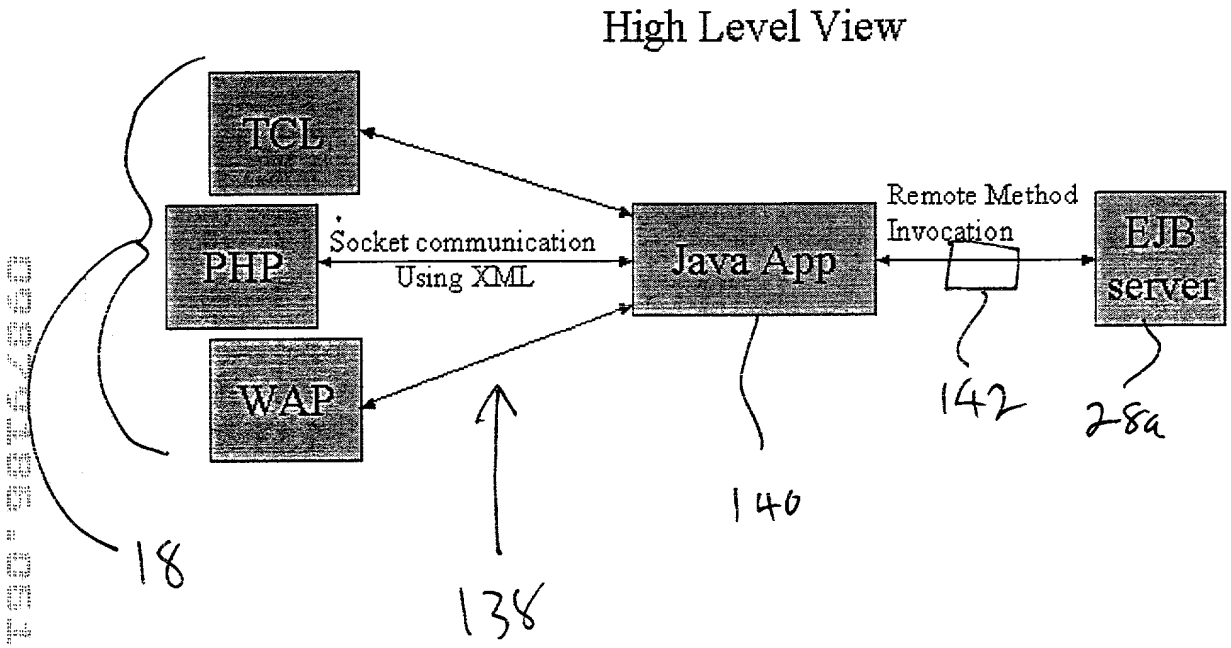

High Level View
TCL
PHP
WAP
Socket communication
Using XML
Java App
Remote Method
Invocation
EJB
server
18
138
140
142
28a

Fig. 4

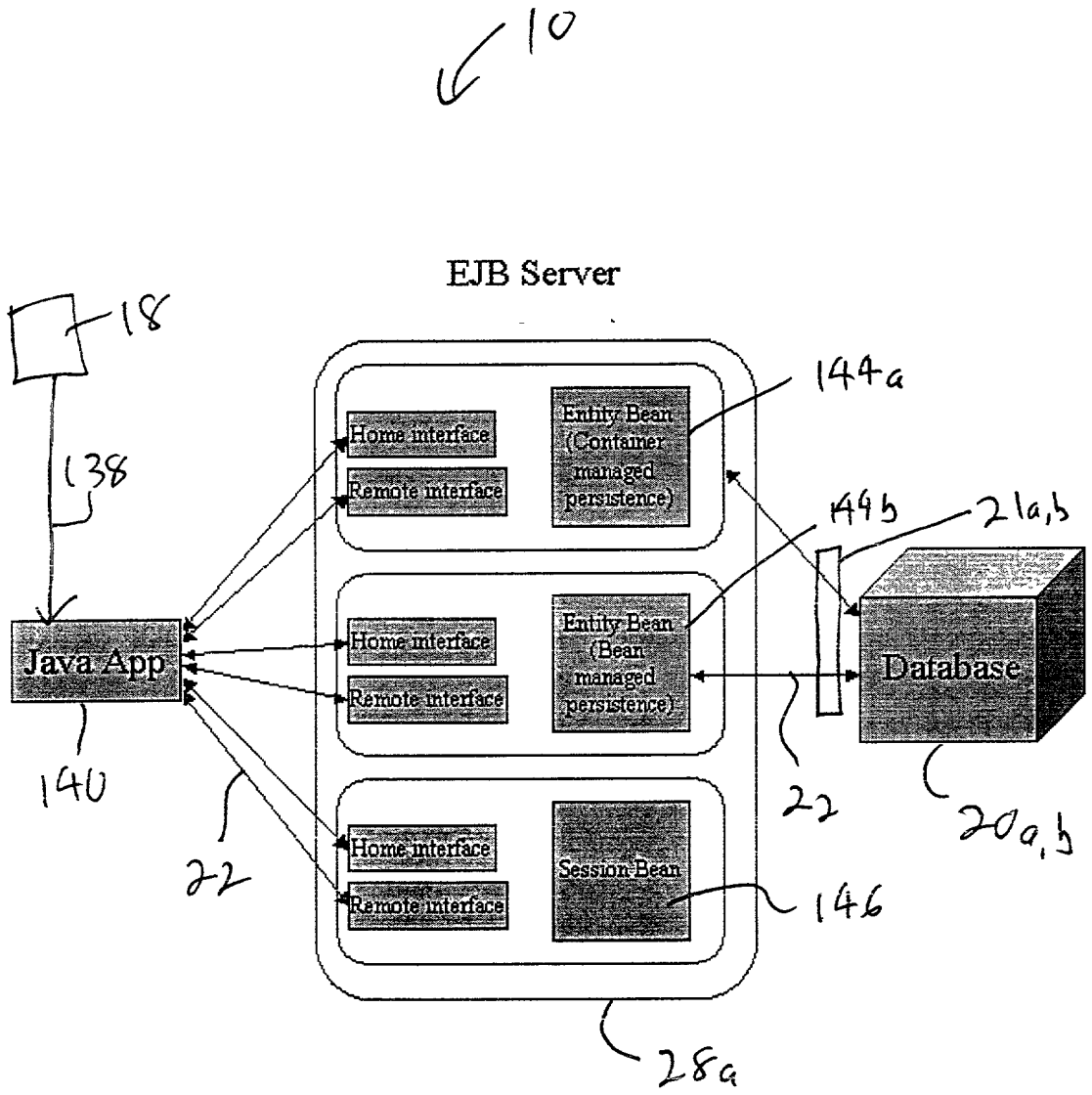

10
EJB Server
18
138
Java App
140
Home interface
Remote interface
Entity Bean (Container managed persistence)
144a
Home interface
Remote interface
Entity Bean (Bean managed persistence)
144b
21a,b
Database
22
20a,b
Home interface
Remote interface
Session Bean
146
22
28a

Fig. 5

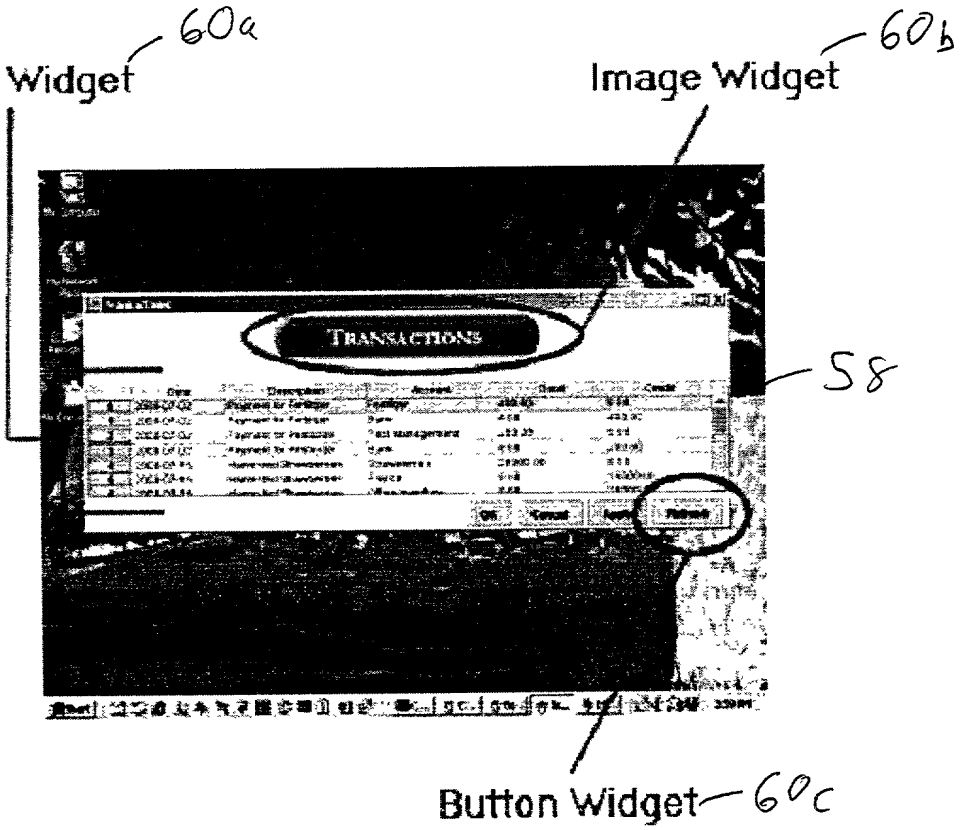
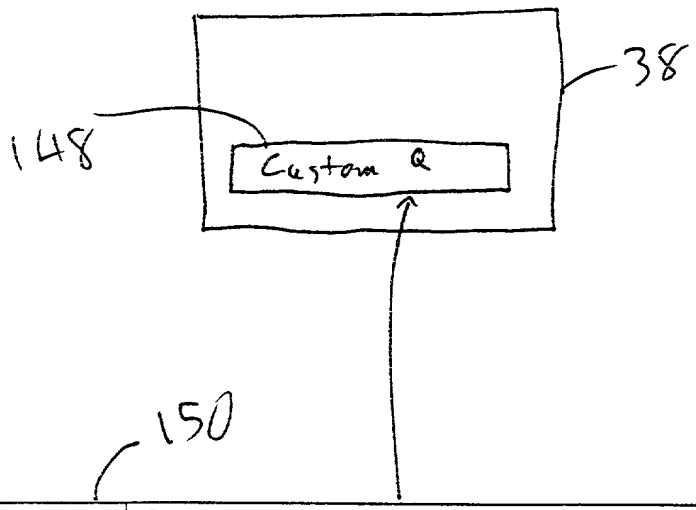

60a
Grid Widget
60b
Image Widget
TRANSACTIONS
58
Button Widget
60c

Fig. 6



Create	Creates a new row in a persistent data store
Load	Loads a row from a persistent data store
Store	Stores the row to a persistent data store
Remove	Removes a row from a persistent data store
GetData	Returns the data in the row
SetData	Sets a specific column of the row with a specified value
Log	A function to record creates/sets/removes to a log for synchronization

Fig. 7

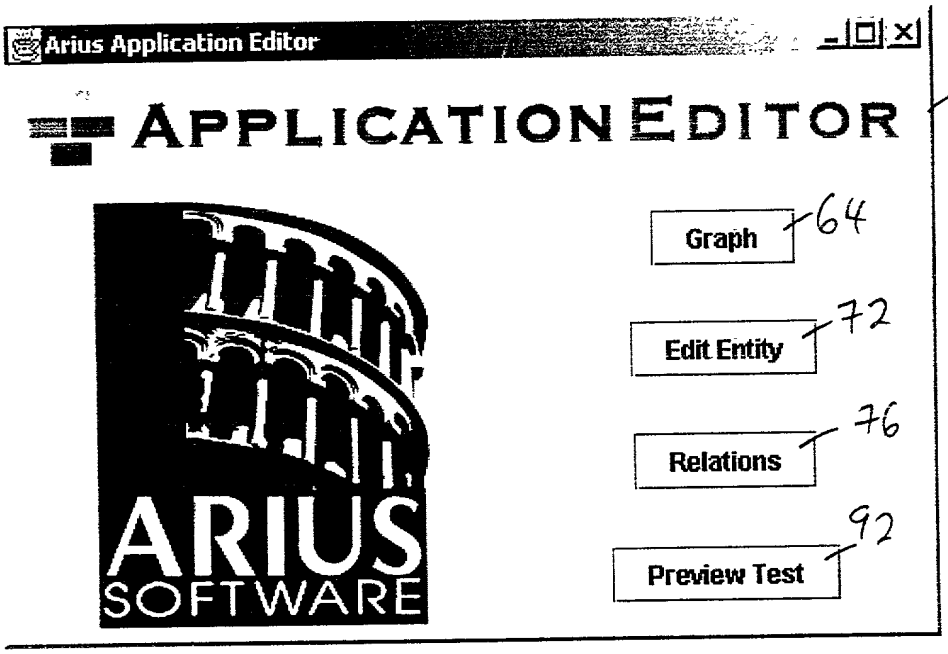

Arius Application Editor
APPLICATION EDITOR
62
ARIUS
SOFTWARE
Graph
64
Edit Entity
72
Relations
76
Preview Test
92

Fig. 8a

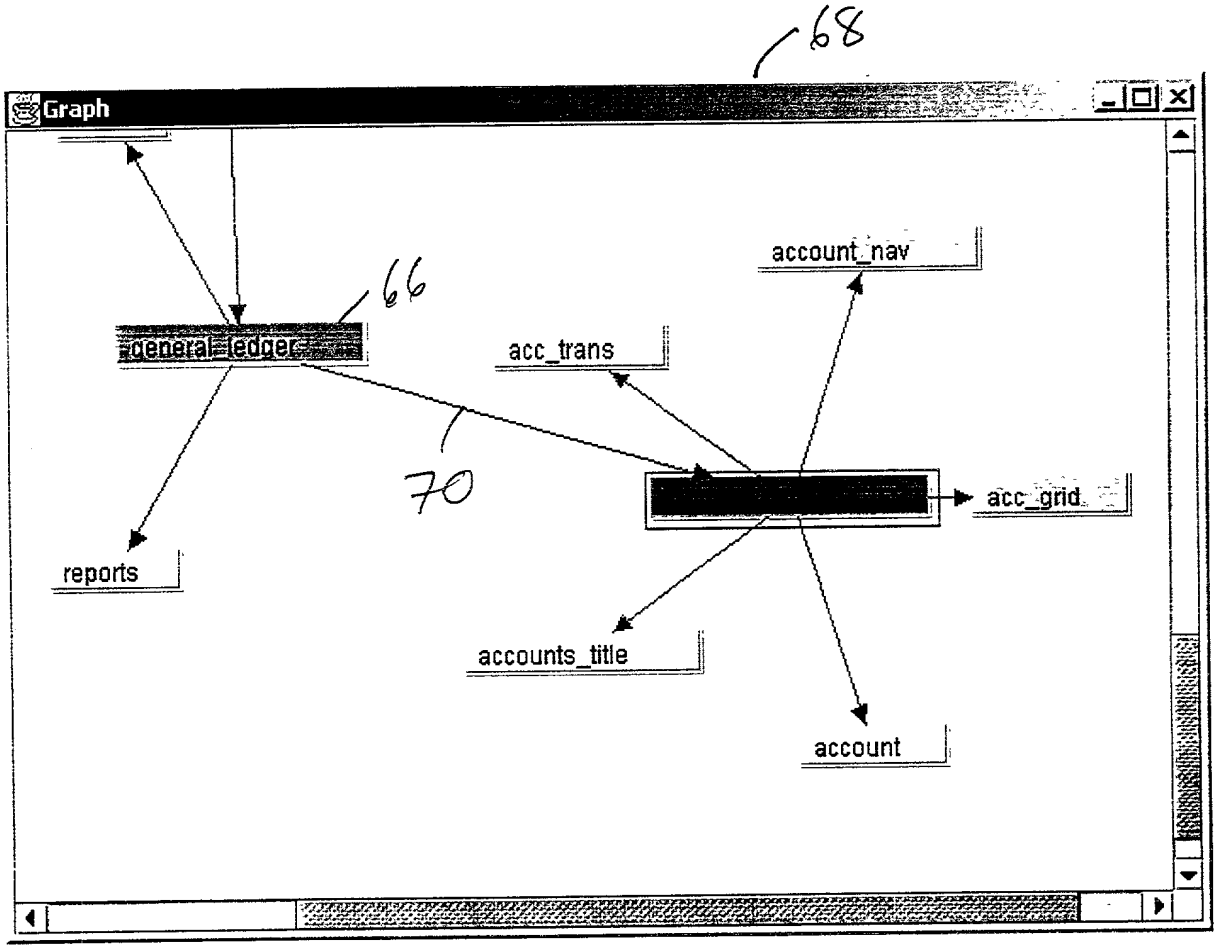

68
Graph
66
general_ledger
account_nav
acc_trans
70
acc_grid
reports
accounts_title
account

Fig 8b

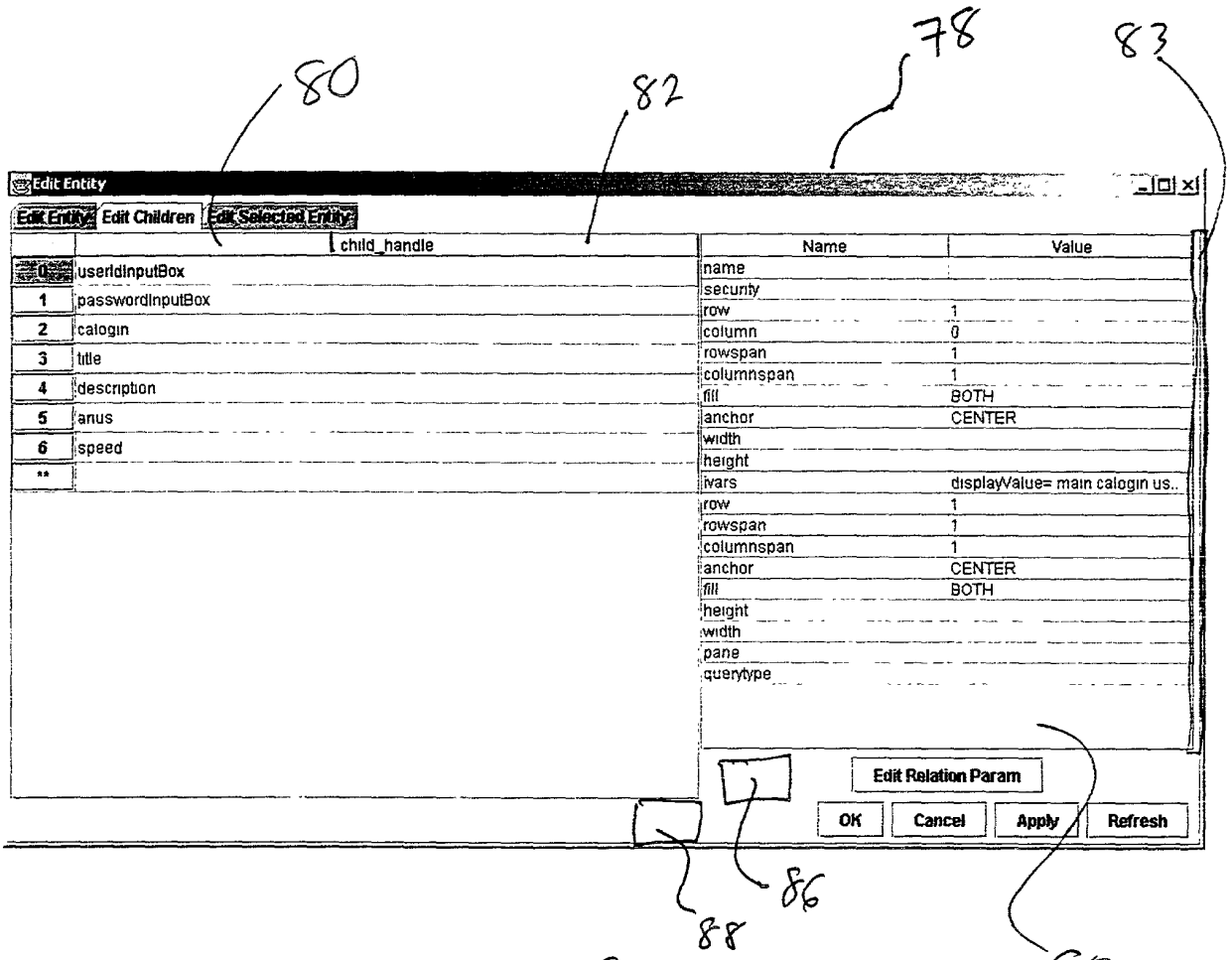

80
82
78
83
Edit Entity
Edit Entity
Edit Children
Edit Selected Entity
child_handle
0 userIdInputBox
1 passwordInputBox
2 calogin
3 title
4 description
5 anus
6 speed
**
Name
Value
name
security
row 1
column 0
rowspan 1
columnspan 1
fill BOTH
anchor CENTER
width
height
ivars displayValue= main calogin us..
row 1
rowspan 1
columnspan 1
anchor CENTER
fill BOTH
height
width
pane
querytype
Edit Relation Param
OK
Cancel
Apply
Refresh
88
86
90

Fig 8c

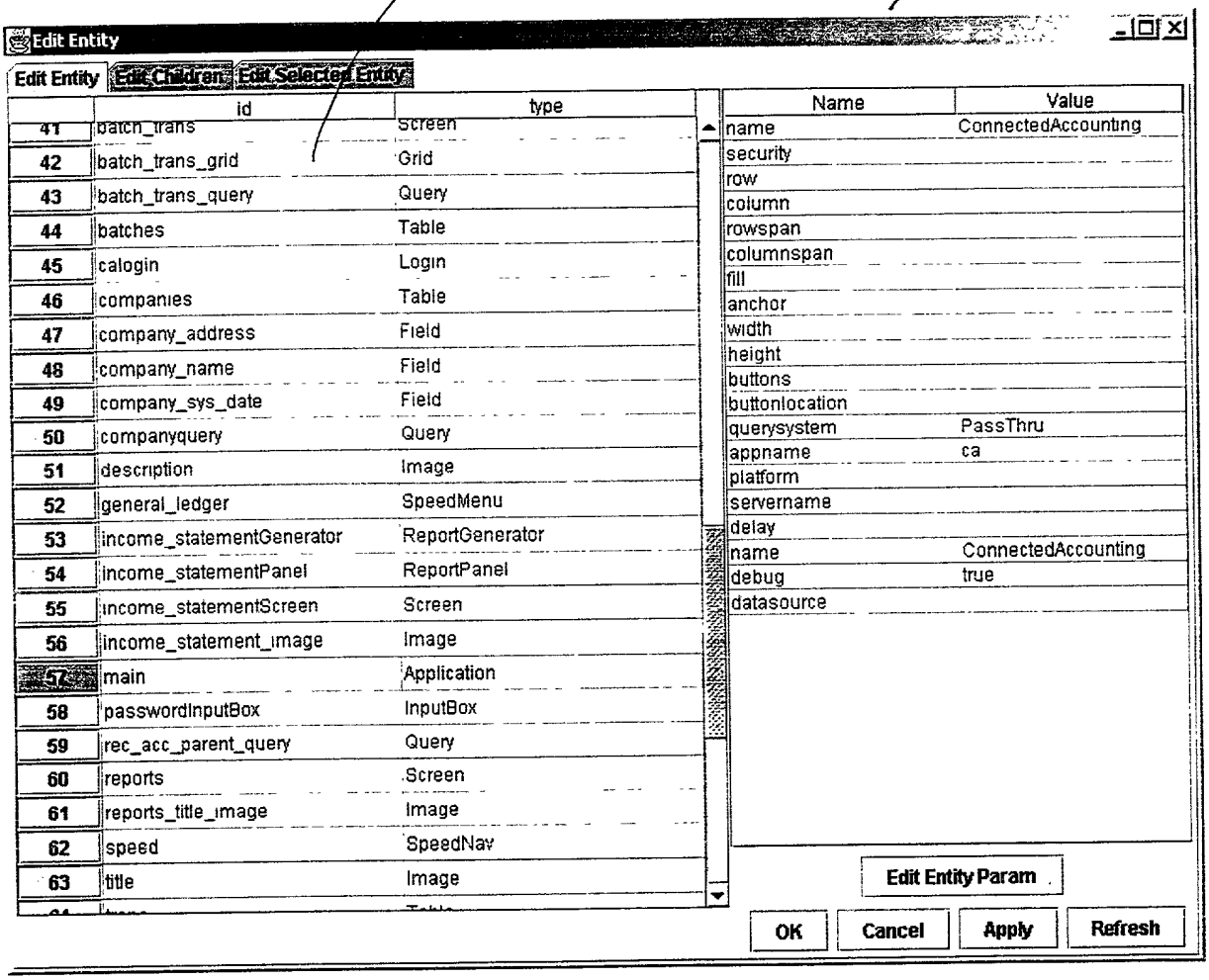

84
74
Edit Entity
Edit Entity
Edit Children
Edit Selected Entity
id
type
41 batch_trans Screen
42 batch_trans_grid Grid
43 batch_trans_query Query
44 batches Table
45 calogin Login
46 companies Table
47 company_address Field
48 company_name Field
49 company_sys_date Field
50 companyquery Query
51 description Image
52 general_ledger SpeedMenu
53 income_statementGenerator ReportGenerator
54 income_statementPanel ReportPanel
55 income_statementScreen Screen
56 income_statement_image Image
57 main Application
58 passwordInputBox InputBox
59 rec_acc_parent_query Query
60 reports Screen
61 reports_title_image Image
62 speed SpeedNav
63 title Image
Name
Value
name ConnectedAccounting
security
row
column
rowspan
columnspan
fill
anchor
width
height
buttons
buttonlocation
querysystem PassThru
appname ca
platform
servername
delay
name ConnectedAccounting
debug true
datasource
Edit Entity Param
OK
Cancel
Apply
Refresh

Fig. 8d

74

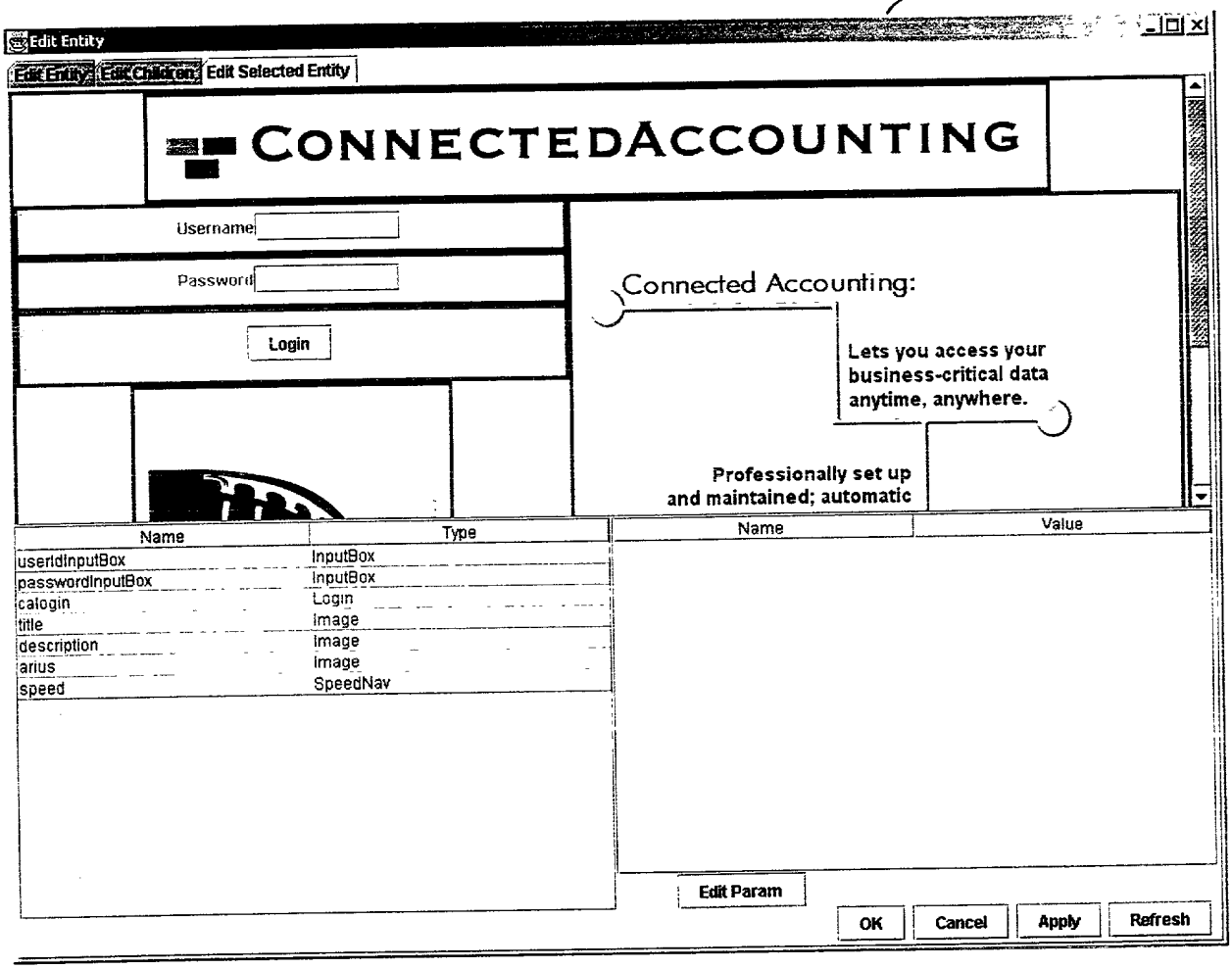

Edit Entity
Edit Entity
Edit Children
Edit Selected Entity
CONNECTEDACCOUNTING
Username
Password
Login
Connected Accounting:
Lets you access your business-critical data anytime, anywhere.
Professionally set up and maintained; automatic
Name
Type
userIdInputBox
InputBox
passwordInputBox
InputBox
calogin
Login
title
Image
description
Image
arius
Image
speed
SpeedNav
Name
Value
Edit Param
OK
Cancel
Apply
Refresh

Fig 8e

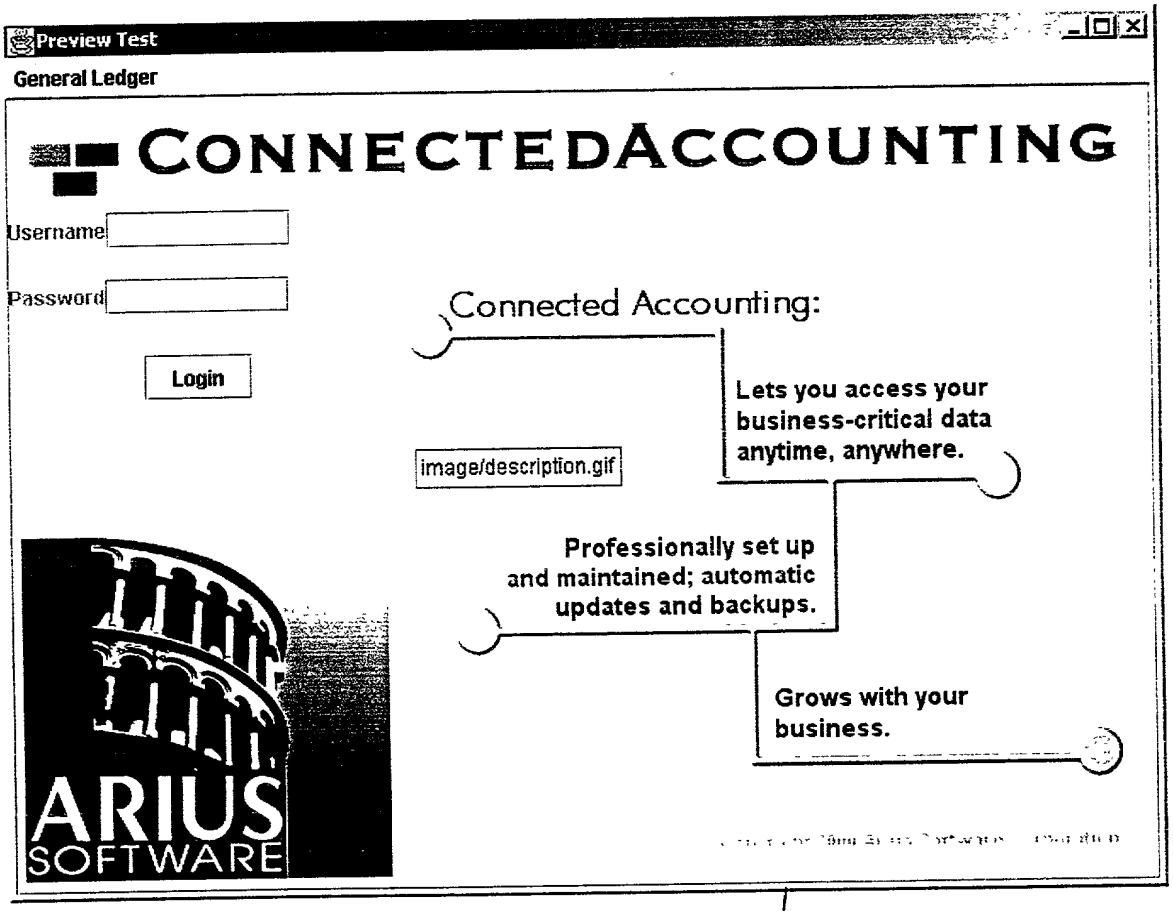

Preview Test
General Ledger
CONNECTEDACCOUNTING
Username
Password
Login
Connected Accounting:
Lets you access your business-critical data anytime, anywhere.
image/description.gif
Professionally set up and maintained; automatic updates and backups.
Grows with your business.
ARIUS SOFTWARE
18

Fig. 8f

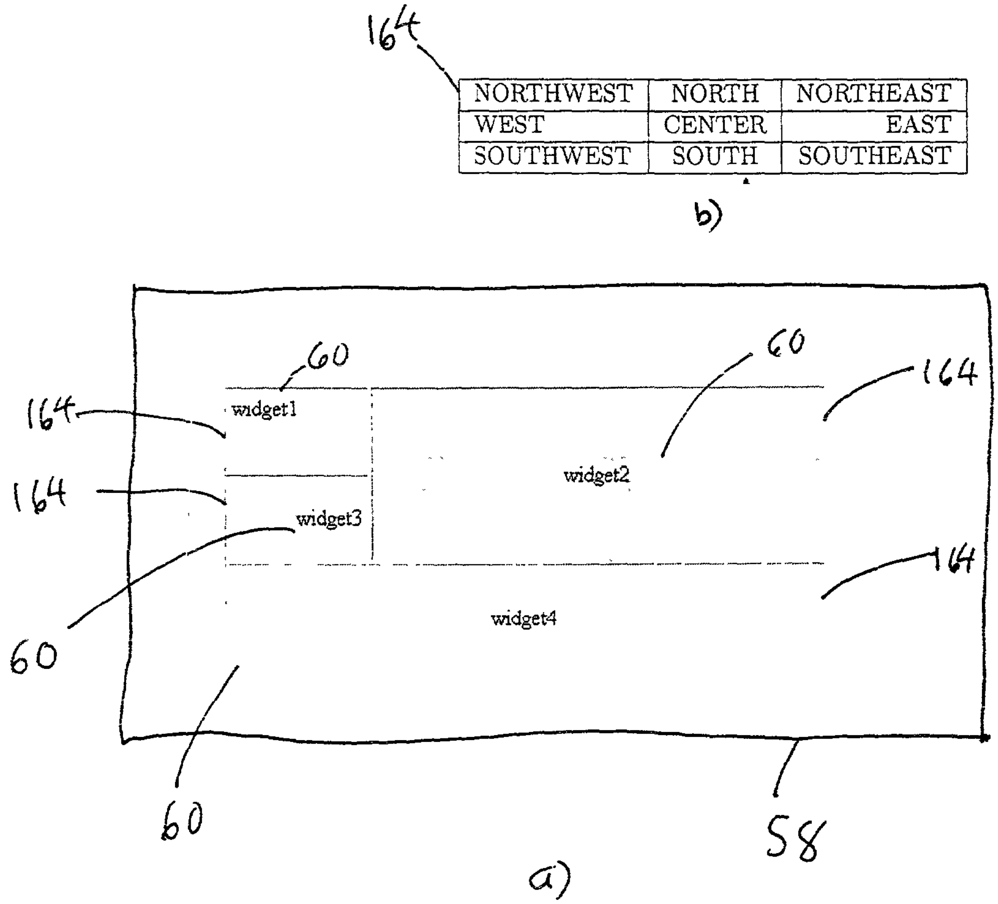

164
NORTHWEST
NORTH
NORTHEAST
WEST
CENTER
EAST
SOUTHWEST
SOUTH
SOUTHEAST
b)
60
60
164
164
widget1
164
widget2
widget3
14
60
widget4
60
58
a)

Fig. 9

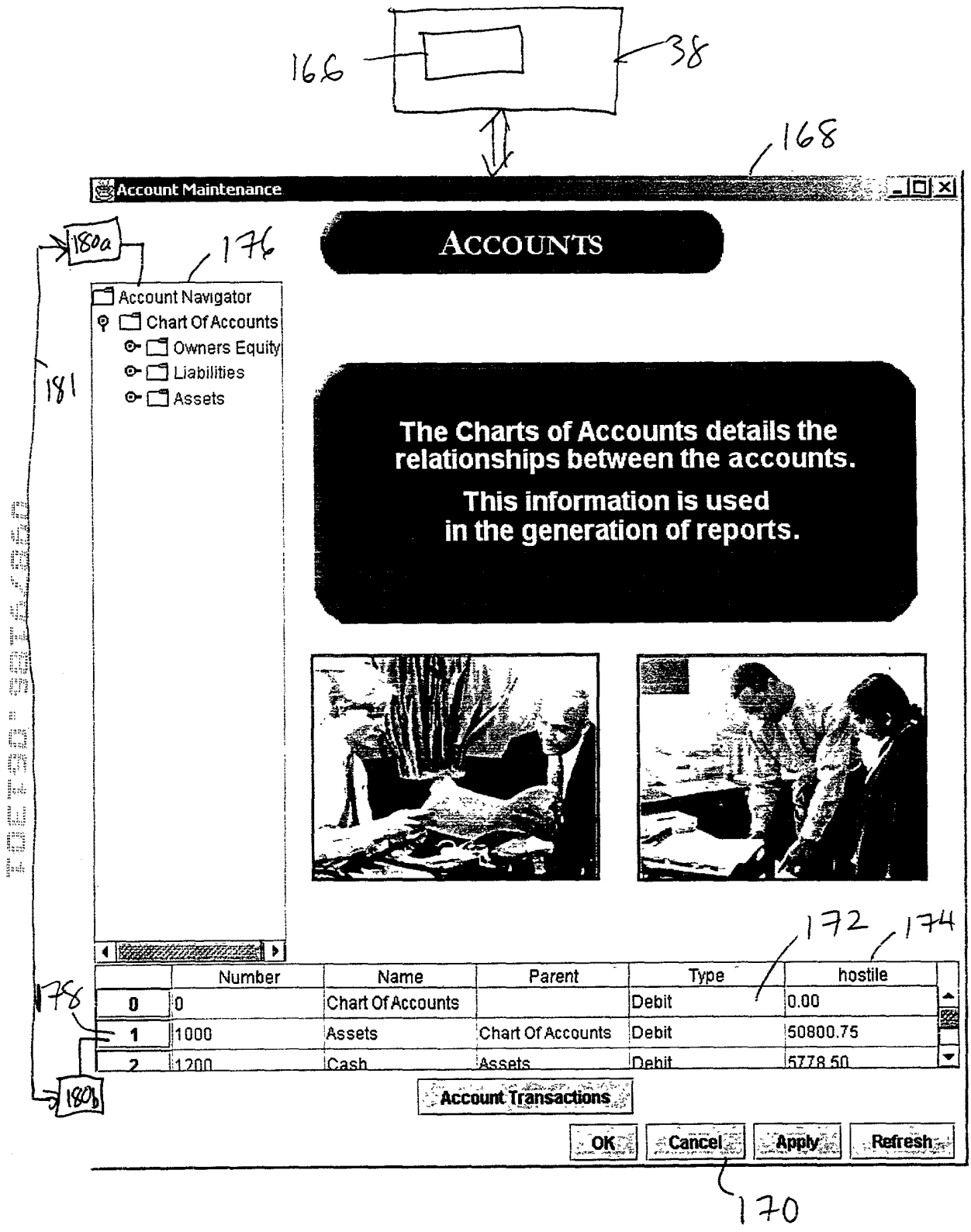

166
38
168
Account Maintenance
180a
176
ACCOUNTS
Account Navigator
Chart Of Accounts
Owners Equity
Liabilities
Assets
181
The Charts of Accounts details the relationships between the accounts.
This information is used in the generation of reports.
172
174
Number
Name
Parent
Type
hostile
178
0
0
Chart Of Accounts
Debit
0.00
1
1000
Assets
Chart Of Accounts
Debit
50800.75
2
1200
Cash
Assets
Debit
5778.50
180b
Account Transactions
OK
Cancel
Apply
Refresh
170

Fig. 10

(Tier 14)	Pass-Through (24)	Enterprise JavaBeans (EJB) 28a	Component Object Model (COM) (28b)	Custom (148)
Java Desktop (18a)	In-house desktop application connecting directly to in-house database server.	High demand in-house desktop application connecting to in-house EJB system.	In-house desktop application connecting to in-house COM system.	Java interface to custom data store.
Java Applet (18b)	Intranet application access to in-house database server.	High demand intranet application connecting to EJB server.	High demand intranet application connecting to COM server.	
Servlet HTML (18d)	Low-medium demand data driven website.	High demand data driven website connecting to EJB server.	High demand data driven website connecting to COM server.	Web interface to custom data store.
Servlet WAP (18c)	Low-medium demand cell phone data access.	High demand cell phone data access connecting to EJB server.	High demand cell phone data access connecting to COM server.	Cell phone interface to custom data store.

Fig. 11

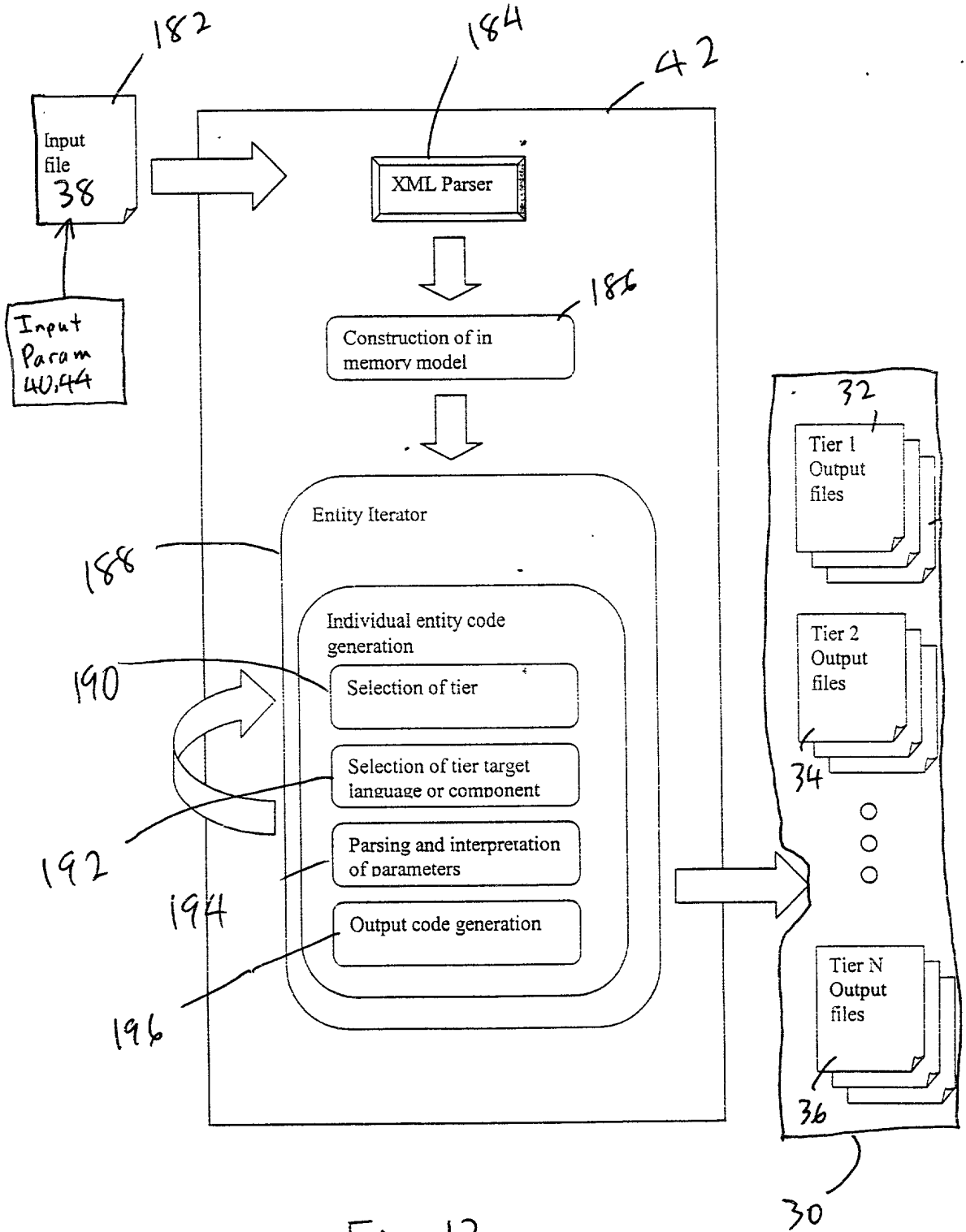

182
184
42
Input file 38
XML Parser
Input Param 40,44
186
Construction of in memory model
32
Tier 1 Output files
Entity Iterator
188
Individual entity code generation
190
Selection of tier
Tier 2 Output files
34
Selection of tier target language or component
192
Parsing and interpretation of parameters
194
Output code generation
196
Tier N Output files
36
30

Fig. 12

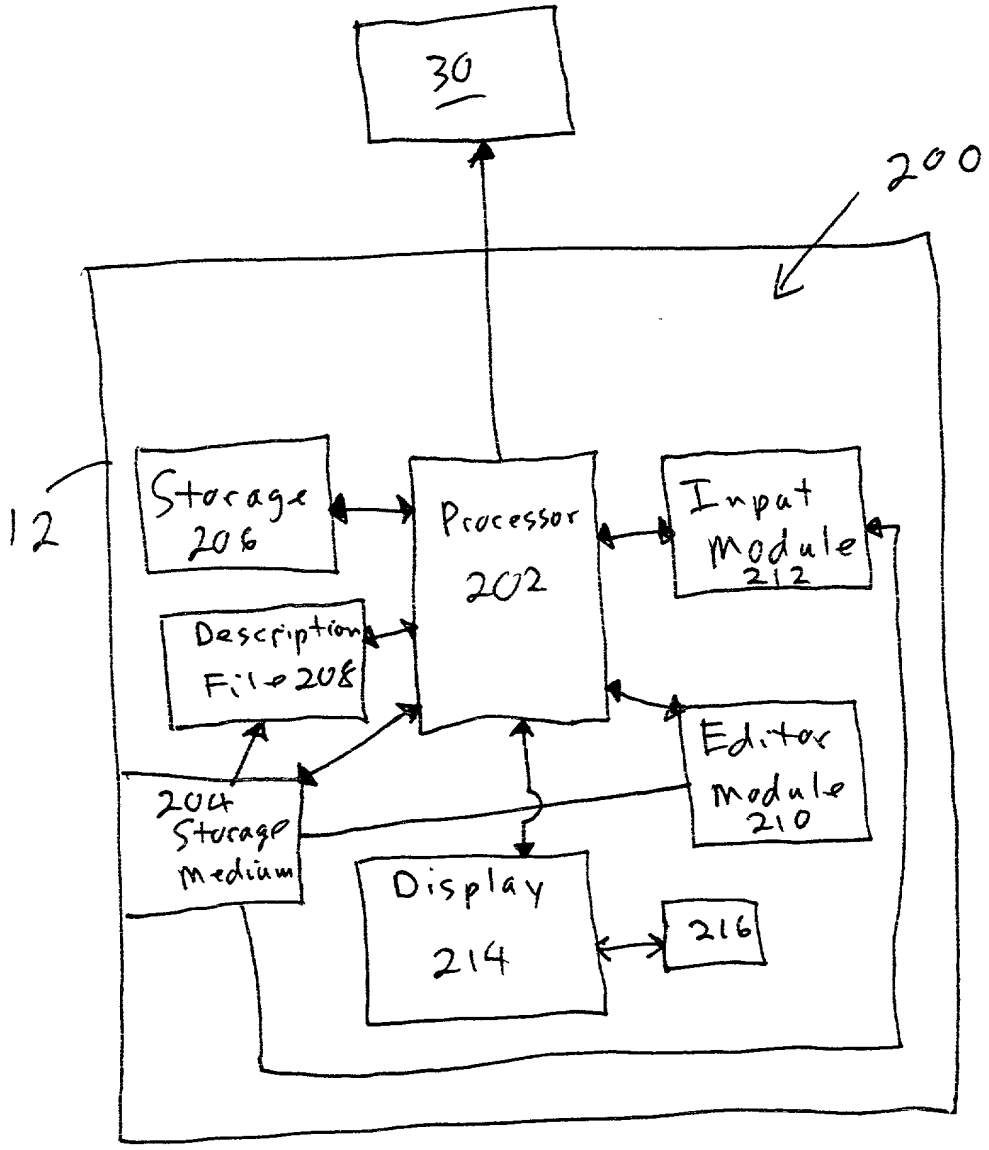

30
200
12
Storage 206
Processor 202
Input module 212
Description File 208
Editor module 210
204 Storage medium
Display 214
216

Fig. 13